

1582

Pope Gregory ordained that Oct. 4 was followed by Oct. 15. This meant that in the next year (1583) the vernal equinox would occur, as the solar calendar of seasons required, on March 21. In this way, the seasonal year was restored to what it had been in 325.

1582

By 1582, the vernal equinox
was actually occurring on
march 11th

OCT. 4, 1582 THURSDAY

LAST DAY BEFORE
GREGORIAN CAL. STARTED.

	JULIAN	<u>GREGORIAN</u>
THURSDAY	OCT. 4, 1582	(NONE)
FRIDAY	OCT. 5, 1582	OCT. 15, 1582
SAT.	OCT. 6, 1582	OCT. 16, 1582
SUN	OCT. 7, 1582	OCT. 17, 1582

1582

Natural History 9/9/18978

Pope Gregory instituted
the Gregorian Calendar. Only
century years divisible by 400
were leap years.

Gregorian Calendar is still
about 27 seconds too long

1582

The accumulated error in the Julian cal. was estimated to have accumulated 10 days. In 1582 Pope Gregory X^{III} decreed that the day following Oct. 4, 1582 should be called Oct. 15 thus dropping 10 days.

With common year 365 days long and a 366 day leap yr every 4th yr, the error in the length of the year would have recurred at the rate of a little over 3 days every 400 yrs. So. 3 of every 4 Centesimal years (ending in 00)

were made common years - not leap yrs.
Thus 1600 was a leap year, 1700, 1800 and 1900
were not (in Gregorian Cal Countries) It was
a leap yr where they had not adopted the
cal. (ex England 1700 was leap)
But 2000 will be a leap year.

Gregorian Cal was adopted at once by
FRANCE, ITALY, SPAIN, PORTUGAL, AND
LUXEMBOURG.

Within 2 yrs - most German Catholic States,
Belgium and parts of Switzerland and the
Netherlands were brought under the
Gregorian Cal.

TO CHANGE FROM JULIAN TO GREGORIAN

From Oct 5, 1582 \Rightarrow Feb 28, 1700 Add 10 days
Feb 29, 1700 (Julian, not Gregorian) to Feb 28, 1800 Add 11 days
Feb 29, 1800 then Feb 28, 1900 Add 12 days
Feb 29, 1900 then Feb 28 2100 Add 13 days

the 20th century ends Dec 31, 2000

The 21st Century begins Jan 1, 2001

1582

Alouatta palliata

Oct 5, 1982 renamed Oct 15, 1982

Err 1 day in 3866 yrs.

1582

Shakespeare was 18 when he
married Anne Hathaway.

1582

The Julian Cal. had been founded on two suppositions: that the year contained $365 \frac{1}{4}$ days and that 235 moons equal 19 years. Both were wrong. The Julian year was long by about 11⁺ minutes (11.232 min).

Pope Gregory XIII introduced the new style or Gregorian Cal. Their year is only 26 sec. wrong and this will be corrected. The years 4000, 8000 and so forth will not be leap years as

might have been expected.
1700 was Leap year in Julian but not Gregorian

JULIAN \Rightarrow GREG & VICE VERSA

<u>JULIAN</u>	<u>GREG</u>	<u>DAY OF WK</u>
OCT 4, 1582	OCT 4, 1582	TITU
OCT 5, 1582	—	FRI
OCT 6, 1582	—	SAT
OCT 7, 1582	—	SUN
OCT 8, 1582	—	MON
OCT 9, 1582	—	TUE
OCT 10, 1582	—	WED
OCT 11, 1582	—	THU
OCT 12, 1582	—	FRI

<u>JULIAN</u>	<u>DAY</u>	<u>GREG</u>
OCT 13, 1582	SAT	—
OCT 14, 1582	SUN	—
OCT 15, 1582	MON	FRI
OCT 16, 1582	TUE	SAT
OCT 17, 1582	WED	SUN
OCT 18, 1582	THU	MON
OCT 19, 1582	FRI	TUE
OCT 20, 1582	SAT	WED
OCT 21, 1582	SUN	THU
OCT 22, 1582	MON	FRI

OCT. 15, 1582 FRIDAY

GREGORIAN CALENDAR
started